10/587539 IAP11 Rec'd PCT/PTO 28 JUL 2006

SEQUENCE LISTING

<110>	Mitsukan Group Corporation	
<120> of the	New taste modifying protein and DNA encoding same, and applica e same	ition
<130>	A-358	
	JP2004-19251 2004-01-28	
<160>	18	
<170>	PatentIn version 3.1	
<211> <212>	1 591 DNA Curculigo latifolia	
<400>	1 gcgg ccaagtttct tctcaccatt cttgtcacct ttgcggccgt cgctagcctt	60
	gccg acagtgtcct gctctccggg caaactctgt atgccggcca ctccctcacg	120
tcgggc	agct ataccttaac catacaaaac aactgcaacc tggtgaaata ccagcacggg	180
aggcaga	atct gggctagcga cactgacggg cagggctccc aatgccgcct cacattgcgg	240
agtgac	ggga acctcattat ctacgacgac aacaacatgg tcgtgtgggg gagcgactgc	300
tggggg	aaca acggcacgta tgctcttgtt cttcagcagg atggcctctt tgtcatctat	360
ggcccg	gttt tgtggcccct tggccttaat gggtgccgca gtcttaatgg tgaaatcaca	420
gttgct	aagg attctactga accacaacat gaggatatta agatggtgat taataattaa	480
tcaagt	gaga ggattgttat gagaataatg agggaatgga agaccaatct catgtcggtg	540
tggccta	atct cgacctgttt gcagtgcctt tgttaaaata acacattgct t	591

<210> 2 **<211> 113**

<212> PRT

<213> Curculigo latifolia

```
<400> 2
```

Asp Ser Val Leu Leu Ser Gly Gln Thr Leu Tyr Ala Gly His Ser Leu 1 5 10 15

Thr Ser Gly Ser Tyr Thr Leu Thr Ile Gln Asn Asn Cys Asn Leu Val 20 25 30

Lys Tyr Gln His Gly Arg Gln Ile Trp Ala Ser Asp Thr Asp Gly Gln 35 40 45

Gly Ser Gln Cys Arg Leu Thr Leu Arg Ser Asp Gly Asn Leu Ile Ile 50 55 60

Tyr Asp Asp Asn Asn Met Val Val Trp Gly Ser Asp Cys Trp Gly Asn 65 70 75 80

Asn Gly Thr Tyr Ala Leu Val Leu Gln Gln Asp Gly Leu Phe Val IIe 85 90 95

Tyr Gly Pro Val Leu Trp Pro Leu Gly Leu Asn Gly Cys Arg Ser Leu 100 105 110

Asn

<210> 3

<211> 158

<212> PRT

<213> Curculigo latifolia

<400> 3

Met Ala Ala Lys Phe Leu Leu Thr lle Leu Val Thr Phe Ala Ala Val
1 5 10 15

Ala Ser Leu Gly Met Ala Asp Ser Val Leu Leu Ser Gly Gln Thr Leu 20 25 30

Tyr Ala Gly His Ser Leu Thr Ser Gly Ser Tyr Thr Leu Thr lle Gln
35 40 45

Asn Asn Cys Asn Leu Val Lys Tyr Gln His Gly Arg Gln Ile Trp Ala 50 55 60

Ser Asp Thr Asp Gly Gln Gly Ser Gln Cys Arg Leu Thr Leu Arg Ser 65 70 75 80

Asp Gly Asn Leu lle lle Tyr Asp Asp Asn Asn Met Val Val Trp Gly 85 90 95

Ser Asp Cys Trp Gly Asn Asn Gly Thr Tyr Ala Leu Val Leu Gln Gln
100 105 110

Asp Gly Leu Phe Val IIe Tyr Gly Pro Val Leu Trp Pro Leu Gly Leu 115 120 125

Asn Gly Cys Arg Ser Leu Asn Gly Glu IIe Thr Val Ala Lys Asp Ser 130 135 140

Thr Glu Pro Gln His Glu Asp IIe Lys Met Val IIe Asn Asn 145 150 155

<210> 4

-4

<211> 23

<212> DNA

<213> Artificial

<220>

<223> primer NC1S

<400> 4

atggcggcca agtttcttct cac

23

<210> 5

<211> 25

<212> DNA

<213> Artificial

<220>

6 1

<223> primer NC1A

<400> 5

taatcaccat cttaatatcc tcatg

25

<210> 6

<211> 114

<212> PRT

<213> Curculigo latifolia

<400> 6

Asp Asn Val Leu Leu Ser Gly Gln Thr Leu His Ala Asp His Ser Leu 1 5 10 15

Gin Ala Gly Ala Tyr Thr Leu Thr Ile Gin Asn Lys Cys Asn Leu Val 20 25 30

Lys Tyr Gln Asn Gly Arg Gln lle Trp Ala Ser Asn Thr Asp Arg Arg 35 40 45

Gly Ser Gly Cys Arg Leu Thr Leu Leu Ser Asp Gly Asn Leu Val IIe 50 55 60

Tyr Asp His Asn Asn Asn Asp Val Trp Gly Ser Ala Cys Trp Gly Asp 65 70 75 80

Asn Gly Lys Tyr Ala Leu Val Leu Gln Lys Asp Gly Arg Phe Val IIe 85 90 95

Tyr Gly Pro Val Leu Trp Ser Leu Gly Pro Asn Gly Cys Arg Arg Val
100 105 110

Asn Gly

```
<210> 7
<211> 52
<212> DNA
<213> Artificial
<220>
<223> primer1
<400> 7
ggggacaact ttgtatagaa aagttgatgc atttcatggt gttttgatca tt
                                                                    52
<210> 8
<211> 49
<212> DNA
<213> Artificial
<220>
<223> primer2
<400> 8
ggggactgct tttttgtaca aacttgtcga gctactacag atcttgcta
                                                                    49
<210> 9
<211> 64
<212> DNA
<213> Artificial
<220>
<223> primer3
<400> 9
ggggacaagt ttgtacaaaa aagcaggctc taaacgtggg gggggggaca gtgtcctgct
                                                                    60
ctcc
                                                                    64
<210> 10
<211> 50
<212> DNA
<213> Artificial
<220>
<223> primer4
<400> 10
ggggaccact ttgtacaaga aagctgggtt taattaagac tgcggcaccc
```

50

```
<210> 11
<211> 65
<212> DNA
<213> Artificial
<220>
<223> primer5
<400> 11
ggggacaagt ttgtacaaaa aagcaggctc taaacgtggg gggggggaca gtgtcctgct
                                                                    60
ctccg
                                                                    65
<210> 12
<211> 50
<212> DNA
<213> Artificial
<220>
<223> primer6
<400> 12
ggggaccact ttgtacaaga aagctgggtt tatccaccat taacacggcg
                                                                    50
<210> 13
<211> 48
<212> DNA
<213> Artificial
<220>
<223> primer7
<400> 13
ggggacagct ttcttgtaca aagtgggtga tctgtagtag ctcgtgaa
                                                                    48
<210> 14
<211> 53
<212> DNA
<213> Artificial
<220>
<223> primer8
```

<pre><400> 14 ggggacaact ttgtataata aagttggatc ttggatataa aaatccaaat atg</pre>	53		
<210> 15 <211> 47 <212> DNA <213> Artificial			
(210) Al Ciliolai			
<220> <223> primer9			
<pre><400> 15 ggggacagct ttcttgtaca aagtgggatc tgtagtagct cgtgaag</pre>	47		
<210> 16 <211> 49 <212> DNA <213> Artificial			
<220> <223> primer10			
<400> 16 ggggacaact ttgtataata aagttgtttc ctataataga ctagcgtgc	49		
<210> 17 <211> 477 <212> DNA <213> Curculigo latifolia	-		
<400> 17			
atggcggcca agtttcttct caccattctt gtcacctttg cggccgtcgc tagccttggc 60			
atggccgaca atgtcctgct ctccgggcaa actctgcatg ccgaccactc tctccaggcg 12			
ggcgcctata ccttaaccat acaaaacaag tgcaacctgg tgaaatacca gaacgggagg 1			
cagatctggg ctagcaacac tgacaggcgg ggctccggct gccgcctcac attgctgagt			
gacgggaacc tcgttatcta cgaccacaac aacaacgacg tgtgggggag cgcctgctgg 30			
ggggacaacg gcaagtatgc tcttgttctt cagaaggatg gcagatttgt catctatggc 36			
ccggttttgt ggtcccttgg ccctaatggg tgccgccgtg ttaatggtgg aatcacagtt 4			

8 gctaaggatt ctactgaacc acaacatgag gatattaaga tggtgattaa taattaa 477 <210> 18 <211> 3481 <212> DNA <213> Aspergillus nidulans **<400>** 18 gatctgtagt agctcgtgaa gggtggagag tatatgatgg tactgctatt caatctggca 60 ttggacagtg agtttgagtt tgatgtacag ttggagtcgt tactgctgtc atccccttat 120 actottogat tgtttttcga accotaacgo caagcacgot agtotattat aggaaaggat 180 cctctagagt cgacctgcag gcatgcaagc tggtcagctt ctcttggcaa tagctgcccg 240 tatgacagga agtccgtaag tacttcccct cccacacttc agtatacgtc ccagtatggt 300 gtggctgacg attcgagggc cggcatccct acgtcattag tcaaaattgg atactggtat 360 tgtgcttgag ggcgcggagc cggagagctc agaagatata tccgggttga tctgttctca 420 tattctttc agattagaat tactgcttcg tacattccct gataattgat atcttccttc 480 aatgacagaa atagatatta aacagaaatg gtaatagtcc cggtgcggag aaatacaccg 540 cccccgcgca ctcgtatata caacagtcaa attcaggagc cacaacatat ctagctcacc 600 gtcactaaga tatggcgtcc gcttagcata ggagtaactg ttttgaagag ataaatgctg 660 ccgatatata tacgtttacg caattgccca tgtgaagtca tgcagagtcg ttacttgaat 720

tcaaatgttc tatagccttc ccaagcactc ttaaccgaag atcccgtctt tatctcgcat 780 caaacaaagg aaataaatcg caaatctcta acgcccaata ttatctacag acgctcaaag 840 tagccctcgc tctcgagcat gaggatgatc tcatggacaa tggaacgaac gctctgcttg 900 gaaacgtcga ccacaaggtt ggcgttggtg ggggcctcgt aggggtcatc gacaccggtg 960 aagcccttga tttcaccgcg gcgggccttg gcgtagatac cgcgcttgtc agtggcctca 1020 cagtattcga ggggagtgtt gacgtgaacc aggaagaaag agccaccggt gctctggaca 1080 gcctcacggg ccgccttgcg ggagtgctcg tagggagcaa tgggggcagc gataacagcg 1140 gcaccggcgc gggtgagttc accggcgacg aaagcgatgc gctggacgtt ggtgtggcgg 1200

tcctcacgac tgaagcccag ctcagaggag agctcgtggc ggacagtgtc accaaggagg 1260 agtgtgacag agcgtccacc ctgctggttg agagtgacct ggagagcacg agcgatggcg 1320 tecttgeegg agtteatgta accggtaagg aagatggtga aaccetggag ggegegaggg 1380 gggctagact cgcgcaggat cttgacaact tcggggtaag agaaccactc agggatgtga 1440 gcaccggtac ggagacggtt acggagttca gttccggaga tgtcgagggt cttggtgccc 1500 gcaggaacct cgtccttggg catgtactca tcggtgtcgg ggaggtaggt gacttgctgg 1560 aattcaacga cctcgatacc gagctccgcg cggtacttct cgaccgcgtg ctgagcatcg 1620 taggggccgt agaactcctg acccttggag ttcttaccag gaccggcgtg gtcacggcca 1680 acaatgaagt gggtggcacc gtggttctta cggatgatag cgtgccagac agcctcacgg 1740 ggaccgccca tgcgcatagc aaggggcaag agagcaagag ccgccattcc gttggggtag 1800 cggggaagaa gggcctggta ggcacggaca cgggtgaagt ggtcaatgtc accgggcttg 1860 gtgagaccga cgacagggtg gataaggaca ttagcttggc gggcgcgagc ggcacggacg 1920 gtcaattcac ggtgagctct gtgcataggg tttctgaggt ctgttagcca tgacattcca 1980 gtctcaagtc aagtaaccag aacgaaccgg gtctggaagg cgacaactcg ggtccagccg 2040 agcttgtcga agtgaatacg gagttccgcg ggggtgtcta aaatcgcgtt agatttatct 2100 ttcttgattt atgcaggctc ctgttgtgtt ctcaaacgta cagcggaggc cgacataatc 2160 gtagtggtta agcttgttga ctgcctcgag ctttccaccg atgtagtact cctcgacctt 2220 ggtgttcagg tacttgatgg cggggtgctc tgggtcaccg ccgaagacga gcttggcctc 2280 cttctccctg gaataagcaa agatgttaga aattgcgcaa tcctcgttta gataaatgcc 2340 acgtccttgg caaatccgca gcgcccgcta gtcccgccat ccggaagacc aagcgaacgc 2400 ggagtaccaa tgacgaggca gttgcccaag gtcatgaaaa caactcactt gtcagggcgg 2460 tagatgtcgt caattgtaag aatagcaagg ttgcggtcgt cacggaagtc acgcagggtg 2520 acacgggage caggettaag geeggeetgt teaatgactg eettggaage atecagagta 2580 atgggcatag agaagaggtt gccgtcggca agacgagact cggcgacgac gctagaaaac 2640 ccccaccatt agcaaaattg gcctatttgc gaatatcatt cccgttatgc actattttcg 2700 cggtctgcct ctcgaaagcg aaagcgaccc cgcacaaggt tggatgggct cgattttgag 2760 gggggagggg ctgcataccc gtcgtagtcc ttctggttca tgaaacctgc gccgcgtcag 2820 tatactttgt ctcgaaactt tgaaataaga caatgtgcgt tgaatggaag gagtaaacgt 2880 acceteaaga ggaetgaaac cacegtteat gateaattea agategeaca getggegete 2940 agtgagcacg atggaggaa gagtggcggc ctcggcctcg agctggtcgt ggcggggagc 3000 atcgcgagcg atgaggtcct tgaggacacc accgtgagga gtgttagcca tattgaatga 3060 actgtgcttt acaagaatga aaatgatccg gtggaaggag aggaaggtgc ggaagaataa 3120 tggtgatgga gaagtgggaa agctgcgagt tttaaaaaaa cgatggcgca aaagggccgc 3180 aagccaacaa ttgcggaacc agatttaatt caggagaacg attgactgga ttccctgccc 3240 ggaccagcca agtaaactgc cggcctggat tcagagtggg gggctacgtc gtctacgtac 3300 tccatatact aatcctacaa ggttatccag acttcctgct cagagtatca ggtatcatct 3360 atactatcag gtagttcact ccacatatcg agggcgaaac aataaaagtg gaaggtttcg 3420 accaagtacc gtacgaacga gacgaacgag gagccatatt tggattttta tatccaagat 3480 3481